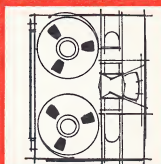


CONDENSED  
CATALOG M-2

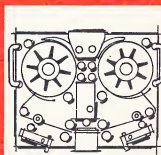


**POTTER®**

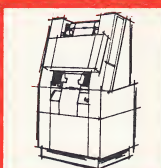
# EDP Equipment



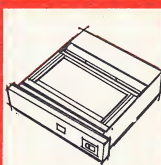
Magnetic Tape Transports



Perforated Tape Readers



High Speed Printers



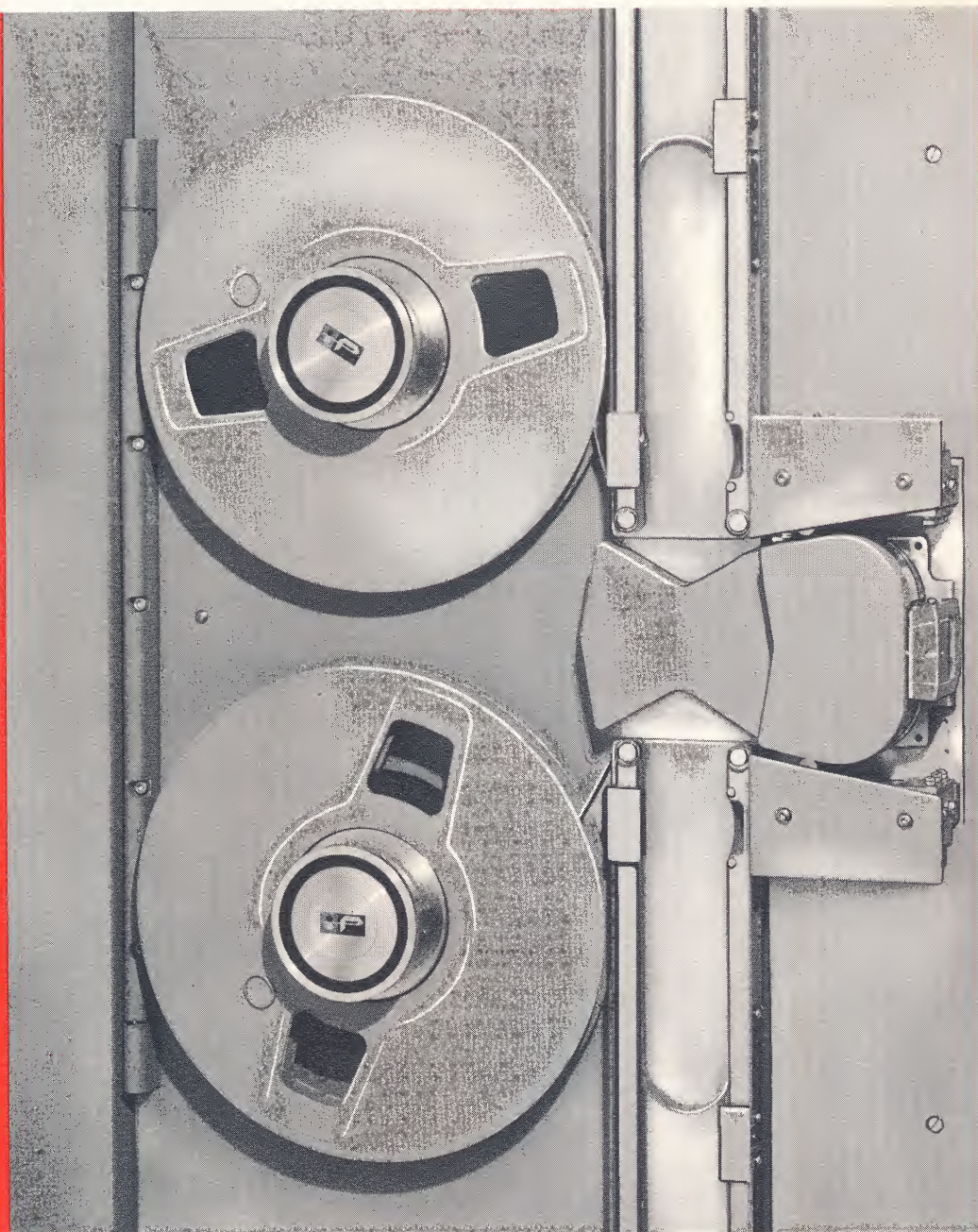
Accessory Equipment

**POTTER INSTRUMENT COMPANY, INC.**



# **NEW** low-cost digital

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**UNIQUE VACUUM COLUMN BUFFER DESIGN** results in a simplified unit with fewer moving parts. Photoelectric tape loop sensing eliminates mechanical vacuum switches. New Potter Quick-Lock hubs and easy tape threading cut reel change time by more than 80%.

\* Patent Applied For. QUICK-LOCK is a Potter Instrument Company trademark.



# magnetic tape transports ...

## three models allow a choice of speed capabilities

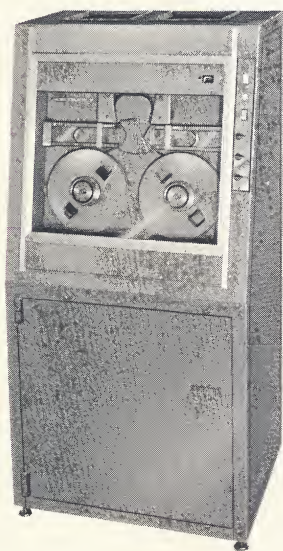
New Potter vacuum-column magnetic tape transports and tape systems are economical units designed for applications requiring moderate data transfer rates. Speeds range from 1 ips to 75 ips with packing densities *up to 800 bpi*.

A choice of three models with different performance ranges permits selection of the most economical machine for every individual application. All three models are alike in design, operation and maintenance. Most component parts are interchangeable. This means all three may be specified

for the same computer without losing the benefits of standardization.

Vacuum-column tape buffer storage is used on all models in combination with a Potter precision tape drive system. Vacuum cleaning and vacuum tape drag before the read/write head assure high operating reliability.

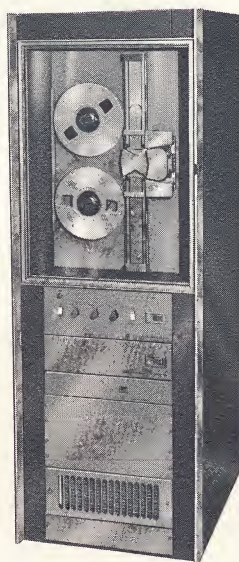
These new Potter transports units are particularly well suited for use with small- and medium-scale computers, as well as a variety of special applications.



**MT-24 Tape Transports and Magnetic Tape Systems**

- 1-36 ips (standard speeds 3, 7.5, 15 and 24 ips)
- 200 commands per second at 24 ips
- packing densities of 200, 556 and 800 bpi
- data transfer to 28.8 kc
- compatible with IBM 729 and 7330 at all packing densities
- two and one-half minute rewind
- tape threading in 15 seconds

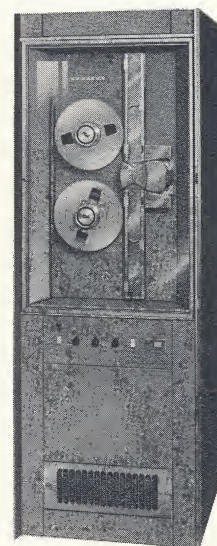
See Product Data 1-201



**MT-36 Magnetic Tape Transport and Magnetic Tape Systems**

- 1-50 ips (standard speeds 30, 36 and 45 ips)
- 200 commands per second at 36 ips
- packing densities of 200, 556 and 800 bpi
- data transfer to 40 kc
- compatible with IBM 729 and 7330 at all packing densities
- two and one-half minute rewind
- tape threading in 15 seconds

See Product Data 1-204



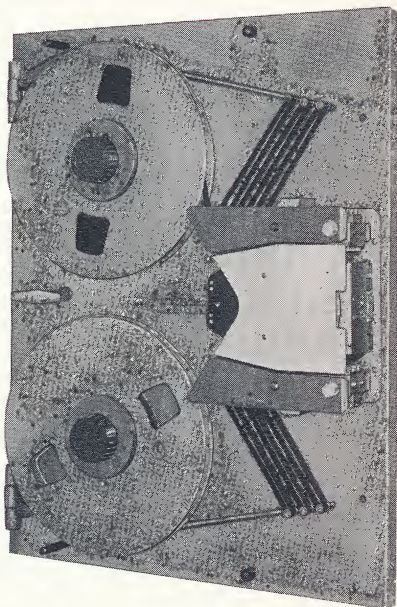
**MT-75 Magnetic Tape Transport and Magnetic Tape Systems**

- 1-75 ips (standard speeds 60 and 75 ips)
- 200 commands per second at 75 ips
- packing densities of 200, 556 and 800 bpi
- data transfer to 60 kc
- compatible with IBM 729 and 7330 at all packing densities
- two and one-half minute rewind
- tape threading in 15 seconds

See Product Data 1-205



# POTTER high-performance digital magnetic tape transports



## M906II-2 Magnetic Tape Transport and Magnetic Tape Systems

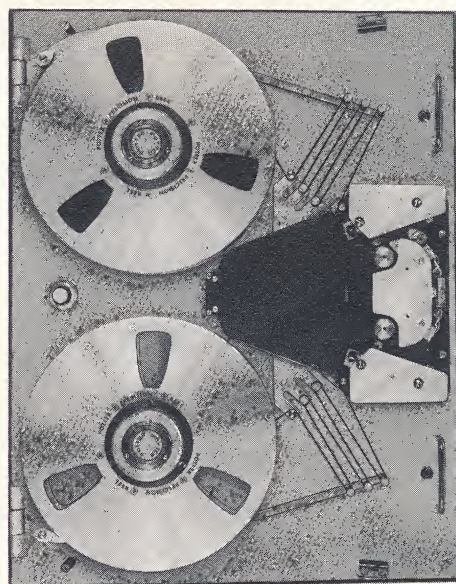
The most versatile transport on the market today, the M906II-2 has a proven record in over 1000 installations. Tape speeds of 1-150 ips are offered in a variety of combinations with standard tape widths from  $\frac{1}{2}$ "- $1\frac{1}{4}$ ".

Supplied as a transport alone, or as an integrated tape system with read/write amplifiers, manual controls, cabinets, and other standard Potter accessories, the M906II-2 meets almost every computer format requirement as well as special laboratory needs.

### SPECIFICATIONS

- 1-150 ips
- up to six speed combinations
- 200 commands per second at 100 ips
- data transfer up to 96 kc with standard IBM recording format — up to 240 kc with Potter High Density Recording
- packing densities of 200, 556 and 800 bpi in IBM format (1100 bpi in Potter high density format).

See Product Data 1-206



## MT-120 Magnetic Tape Transport and Magnetic Tape Systems

A high-speed, reliable tape handling machine — at a moderate cost. An improved vacuum-buffering system makes possible bidirectional tape speeds up to 120 ips without program restrictions. Convenient operator features include push-button loop control arm retraction, fast tape threading. The MT-120 is available as a transport separately or with associated read/write amplifiers, cabinets and other accessories.

### SPECIFICATIONS

- 1-120 ips  
(standard speeds 75, 100, 112½, 120 ips)
- 200 commands per second at 120 ips
- data transfer up to 96 kc with standard IBM recording format
- packing densities of 200, 556 and 800 bpi
- also available for use with other computer formats

See Product Data 1-203

## POTTER HIGH DENSITY RECORDING

Potter contiguous, double-transition, high-density recording is a revolutionary multi-channel technique that permits recording up to 500,000 alpha-numeric characters per second at densities up to 1100 bpi. Bit dropouts are guaranteed fewer than 1 in  $10^7$  at

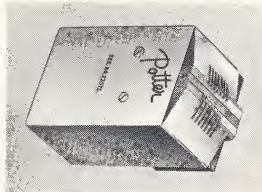
1100 bpi, and reread time to recover transient errors is less than .005%.

Since interchannel time displacement is rendered insignificant under this system, significant increases in longitudinal recording density are practical.



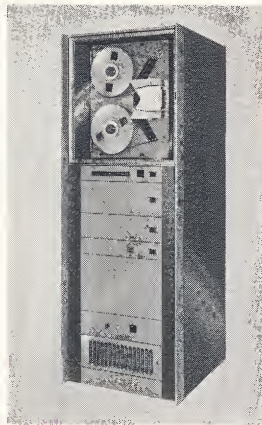
# POTTER

## transport accessories



### Magnetic Heads

A variety of digital magnetic record/playback heads compatible with virtually all formats have been developed by Potter engineers. Special materials for all-metal construction and ultra-precise manufacturing methods assure long head life and highest data recovery reliability. Heads are available in single-gap, interlaced, and dual-gap models, from single track to as many as 56 tracks.



### Cabinets

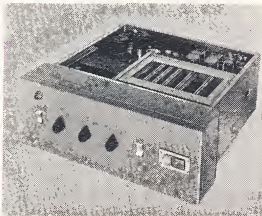
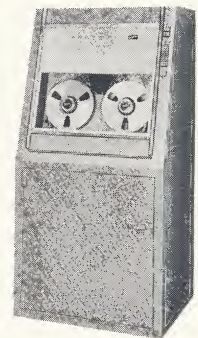
Two standard rack cabinets are available to accommodate tape transports and accessories. Sturdy construction — 19-inch mounting rails give solid support for the transport, manual control, drive electronics and power supply and read/write amplifiers. Casters permit easy maneuverability. Colors: Potter gray — or to specification.

#### ◀ M3340

Upright cabinet for all Potter transports. Hinged glass door. Includes built-in blower and filter.

#### CT-120 ▶

Slope front design for operator convenience. Accommodates models MT-24, M906II-2 and MT-120. Sliding Plexiglass door.



### Manual Control

The following Manual Control units are available for use with Potter Tape Transports:

**M3321** . . . . . for Transport Model 906II-2

**PBH/V-120** . . . . . for Transport Model MT-120 and MT-24

### Drive Electronics

**EC-75** . . . for Transport Model MT-75 (mounted on drive electronics chassis)

**EC-36** . . . for Transport Model MT-24 and MT-36 (mounted on drive electronics chassis)

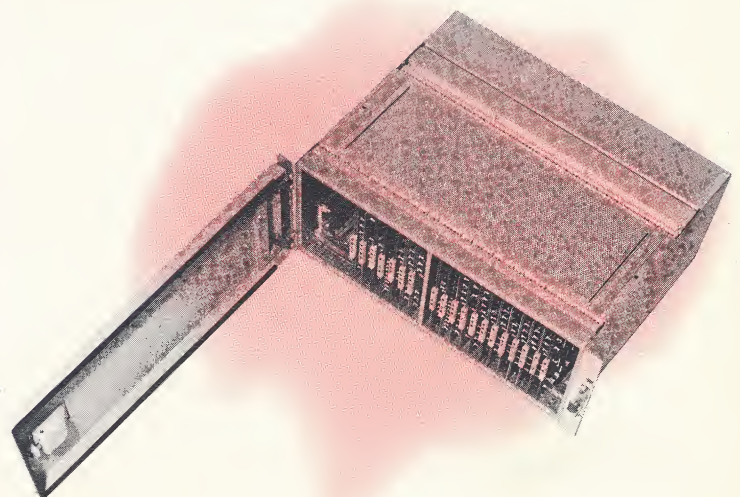
## Read/Write Amplifiers

Potter read/write amplifier systems are solid-state electronic packages housing read/write amplifiers, various control and logic modules, and a regulated power supply. In conjunction with the tape transport, the amplifier records digital information on magnetic tape — reproduces the data on command.

**MODEL MA-315** . . . designed to cover the range of IBM-compatible tape formats: Model MA-31 (uncompensated) for 200 bpi; and Model MA-315 (compensated) for 200/556/800 bpi. Read/write tape speed: 0 to 120 ips. (PD 1-402)

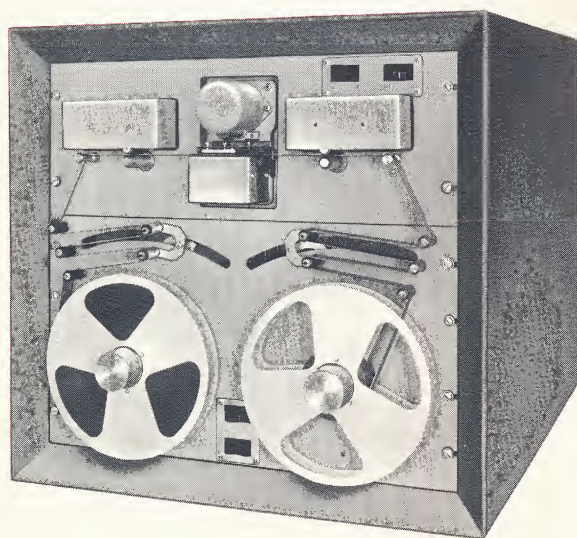
**MODEL MSA375** . . . read/write switching amplifier . . . designed to reduce the cost of digital magnetic tape systems by permitting time sharing among groups of up to 4 tape units. Compatible with all IBM tape formats at 200/556/800 bpi. (PD 1-403)

**MODEL 921A** . . . read/write amplifier . . . compatible with a variety of computer formats including IBM, Uniservo, Burroughs, Philco, Minneapolis-Honeywell and RCA. Tape speeds from 1 ips to 150 ips. (PD 1-401)





# POTTER high speed tape readers



## **PTR-500** perforated tape reader

The Potter PTR-500 is a high-speed, bidirectional photoelectric tape reader which provides high reliability and high performance at a moderate price.

Standard two-speed unit reads tape dependably at 25 inches (250 characters) or 50 inches (500 characters) per second. First characters can be read in 8 ms when operating at 50 ips. Patented MONOBRAKE\* feature enables stopping on sprocket hole of stop character — eliminates tape bounce and buckling.

Where tape supply and take-up is required, a PTS-500 perforated tape spooler companion unit is furnished. It operates compatibly with the PTR-500 reader at all speeds up to 50 ips.

### **SPECIFICATIONS**

- 25 and 50 ips
- 5, 7 and 8 levels standard
- 11/16", 7/8" and 1" tape widths standard
- Stop on STOP Character
- Start Time: 8 milliseconds maximum
- up to 100 steps/second

See Product Data 2-110

\* trademark of Potter Instrument Company, Inc.

## **to military specifications**

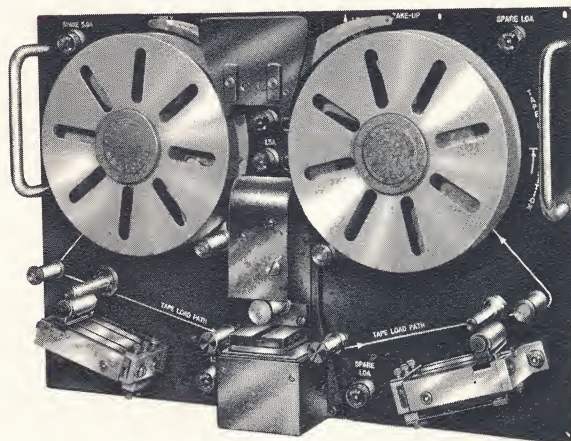
### **PSR-200** perforated tape reader

Proven successful in a variety of military applications, the PSR-200 is a bidirectional, 200 character-per-second, photoelectric tape reader. Self-contained regulated power supply, amplifiers and start-stop circuits are completely transistorized. Rugged construction permits operation in any position. Qualified to meet stringent environmental requirements of Mil-T-21200.

### **SPECIFICATIONS**

- 20 inches per second tape speed
- 6-inch diameter tape reels
- Start Time: 15 milliseconds at 20 ips
- Stop on STOP character
- Rewind Time: Less than 3 minutes per 500 feet
- 1-inch tape width standard, 11/16 & 7/8-inch optional
- 8 channels standard; 5, 6, 7 optional

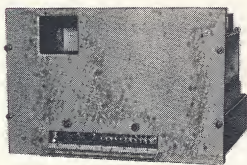
See Product Data 2-211





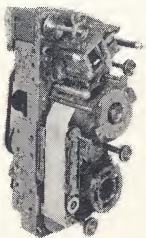
## and militarized printers

Potter Instrument Company has specialized in the design and development of high-speed, electronic printing systems for over a decade. Potter high-speed systems have proved their efficiency in such applications as communication lines, data checkout, programmers, data listers and computer checkout. Units are available to meet military specifications.



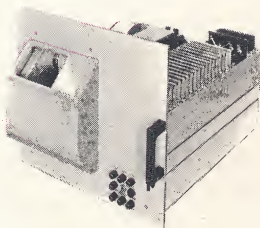
### HSP-3601 Parallel Input High-Speed Printer

An in-line parallel input military printer capable of printing up to 26 columns of 16 characters each at 720 lines per minute. Pressure sensitive paper.



### HSP-3602 High Speed Printer

Designed for maximum printing speed of 420 lines per minute, up to 20 columns and 16 characters. Fanfold or roll-type paper. Separate electronic packages available for parallel or serial inputs. Developed for Polaris program.



### HSP-3603 Serial Input High-Speed Printer

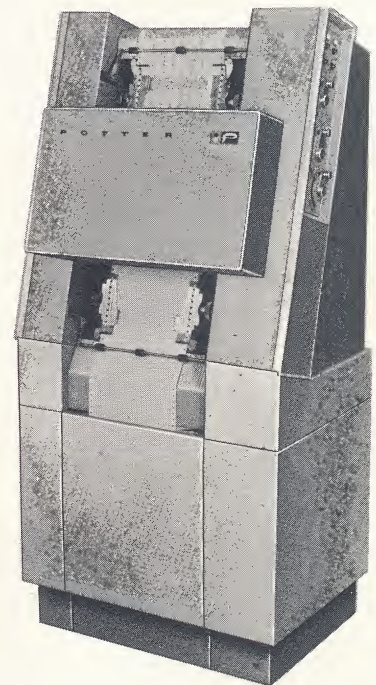
Designed for printing speeds of 600 lines per minute in a 12-column format — 16 characters available. Contains buffer storage capable of accepting information asynchronously up to 90 kc, serial by character, and parallel by bit. Pressure sensitive paper utilized.



### HSP-3604 High-Speed Serial or Parallel Printer

Designed for character at a time or parallel printing in a 26 column with 64 characters available. Drum speed of 15 RPS yields a serial average print-out of 100 characters per second or 600 lines per minute in the parallel mode.

## High-Speed Computer Output Printers and Printing Systems



### HSP-3501

Was developed to meet a long-standing need in the data processing industry for a reliable high-performance printer at moderate cost. It uses impact printing techniques that have been successfully employed on a large scale by Potter Instrument Company in its Polaris Printer Program. The HSP-3501 is available as a basic line printer or as a complete printing system. A wide selection of print characters and line widths available.

### SPECIFICATIONS

- alphanumeric printing with a full complement of 64 characters, numeric copy at 2400 lpm
- up to 64 characters in up to 160 columns
- asynchronous input up to 100 kc, optional synchronous input at 2 MC or less
- paper stock up to 17-25/32 in width.



# About POTTER



## POTTER PLANTS

Tape transport production is carried on in this modern 62,000 sq. ft. plant on Sunnyside Boulevard, Plainview, New York. Building also houses corporate offices, sales, engineering and research groups.

East Bethpage Road plant (below), completed in 1963, produces high-speed printers. A third plant in Luquillo, Puerto Rico, manufactures magnetic and photoelectric recording and playback heads. Total manufacturing space in all Potter plants exceeds 110,000 sq. ft.

Present Potter employment is in excess of 650 people.



## POTTER SERVICE

Potter Repair Centers have been established in strategic locations within the continental United States and abroad, to support the entire Potter product line.

Staffed by trained representatives, these centers are equipped to effect on-site installations of equipment, and to perform repair, maintenance and overhaul functions.

In addition, Potter spare parts are available on a 24-hour delivery basis to meet any customer's emergency requirements—within 72 hours for standard parts under normal conditions. Potter also offers provisioning and logistics capabilities to meet all existing military specifications.

## SALES OFFICES

**Potter Instrument Company, Inc.**  
151 Sunnyside Boulevard  
Plainview, Long Island, New York  
(516) OVerbrook 1-3200  
TWX: 516-433-9320  
Cable Address: PICO

**Potter Instrument Company, Inc.**  
Los Angeles (La Canada), Calif.  
1041 Foothill Boulevard  
(213) MUrray 1-5845

**Potter Instrument Company, Inc.**  
Phoenix, Arizona  
(602) ENterprise 150

## INTERNATIONAL SALES

**Potter Instrument Company, Inc.**  
Spur Road, North Feltham  
Trading Estate  
Feltham, Middlesex, England  
Telephone FELtham 4266

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